

## **Overview**

We hope to assist some primary school students to achieve the rough extraction of DNA through simple steps and equipments, while we introduce some of the basic knowledge of DNA, as well as the project introduction of our iGEM team this year.

## **Material**

5 beakers  
Sieve  
Ziplocbag  
NaCl,  
alcohol,  
distilled water  
detergent  
banana  
ice box.

## **Protocol**

1. Pour 45ml distilled water, 5ml detergent, about 6g NaCl into the beaker, stir well;
2. Put 1/2 of the a banana in an open ziploc bag with the solution we have got in step A, and close the bag. Gently mash up the banana by squeezing the bag until the banana is much and doesn't have any lumps.
3. Carefully pour the contents of the bag into the filters and let the liquid drip through the filter into the beaker.
4. gently pour 15ml cold alcohol(0°C) or isopropanol into the beaker, with the addition of cold alcohol, you will see the white suspended, which contains a lot of impurities in the banana DNA.